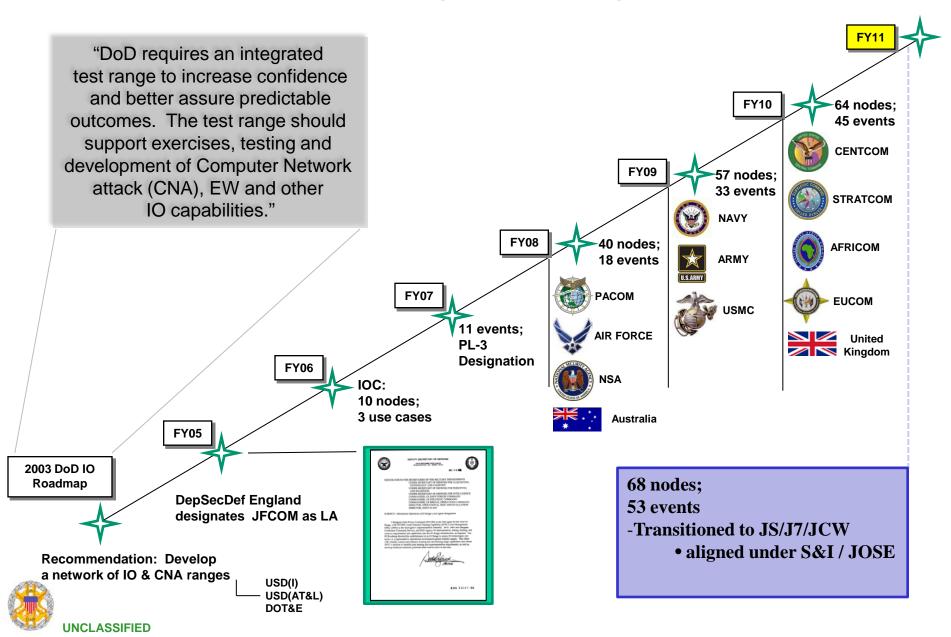


Joint Information Operations Range Overview

Overall classification of this brief is UNCLASSIFIED

Joint 10 Range Background



Joint 10 Range Purpose & Tasks

The Joint IO Range is a secure cyber enterprise providing warfighters, and supporting elements, the ability to employ highly classified information related capabilities

Tasks:

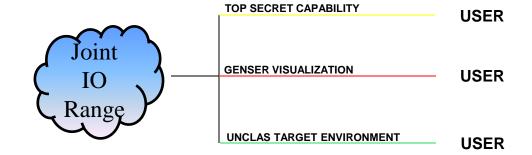
- Provide a flexible and persistent operationally relevant and technically representative environment that enables the integrated employment of information-related capabilities (i.e. cyber, electronic warfare, intelligence...)
- Connect and enhance existing test and training range capabilities
- Integrate COCOM, Service, Agency & Coalition requirements; from concept development and tests through exercises, training and mission rehearsal
- Assess IO technologies and tactics in a representative operational environment against realistic targets
- Identify future joint requirements, as well as develop solutions



Key Joint 10 Range Concepts

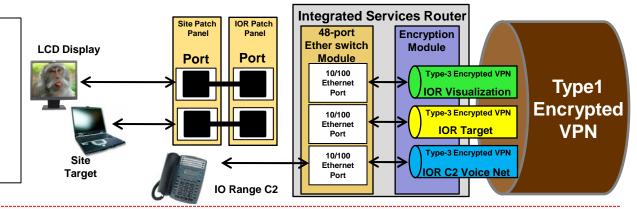
Standing Infrastructure

Supports events at multiple independent levels of security



Closed Loop Network

Type 3 encrypted VPNs created within Type 1 encrypted cloud



Streamlined Approval Process

- Standing Exercise EXORD
- ATO certified by DIA and Joint Staff SAPCO

"USE OF THE IO RANGE SATISFIES ALL REQUIREMENTS FOR A CLOSED-LOOP NETWORK"







William N. McCasland Major General, USAF

Director, Special Access Programs Central Office

What the Joint IO Range Provides

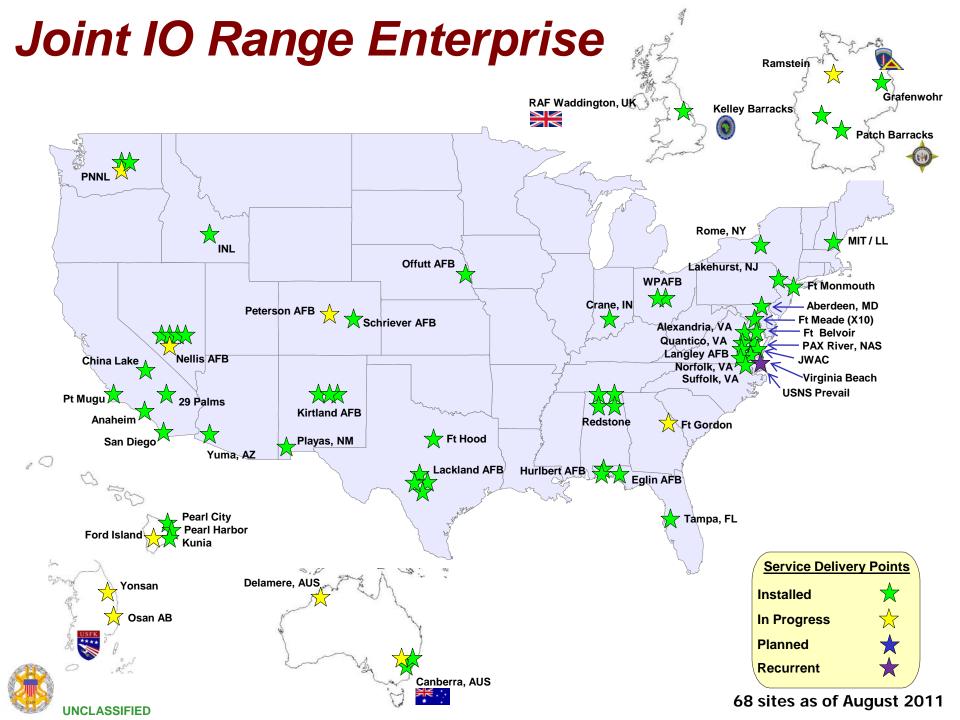
The ONLY fully accredited, deployable SAP/SAR+ distributed information system within DoD

UNCLASSIFIED

Persistent technically representative environment with standing execution authority and mature processes

Subject matter expertise for weapon-target pairing, environment characterization, engineering, planning and synchronization

Technology People **Process USERS CAPABILITIES** AFRICOM **TELEPHONY ENVIRONMENTS** ARMY COMMUNICATIONS: **TERRESTRIAL &** CENTCOM SPACE LARGE COMPUTING **ENVIRONMENTS** SCADA People **CRITICAL INF** Australia **CONTROL SYSTEMS** THREAT SYSTEMS **RED TEAMS** DOE EW United **PLATFORMS** Kingdom TRAFFIC **GENERATION** SYSTEMS DOT&E SOUTHCOM **Technology Process** MODELS SIMULATION CNO LABS **STRATCOM**



JIOR Nodes

TSDP

(Transportable)



DIA CTTA approveds for stacked configuration (eliminating need for 1m Red/Black separation)

MSDP

(Micro)



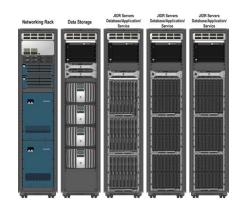


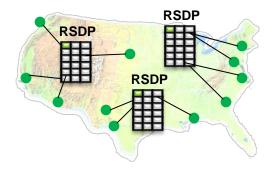
First generation MSDP's include:

- Small form-factor PC
- Cisco 7960G VoIP phone
- Axis 214 PTZ IP camera

RSDP

JIOR Node Concentrator (Regional)





Delivering a closed-loop Community Cloud Computing (C4) solution providing cost savings, power savings, green savings and increased agility in S/W deployment



Summary

The Joint IO Range:

- Increases COCOM awareness and confidence in IO capabilities
- Increases integration of non-kinetic effects with kinetic warfare
- Supports emerging IO technologies
- Facilitates training against IO targets sets

 Integrates IO capabilities into Joint training, testing, and experimentation "We cannot conduct an effective cyber experimentation compaign without the IO Range."

- USPACOM - Terminal Fury 10 Cyber War AAR (2010)

"We saved \$4M by using the IO Range instead of procuring the equipment ourselves."

- Division Head for EW Programs, Naval Surface Warfare Center Crane(NSWC Crane)

"315 Network Warfare Squadron (39 NWS) personnel who've completed UNWT prior to assignment are scoring 15-20% higher on their entrance exam."

- From the 39 IOS UNWT Course Director (2009)

"The IO Range provided a realistic opportunity to conduct live fire CNO via a protected network."

- Talisman Sabre 07 AAR - CTF C39 and C6

"The IO Range is absolutely vital towards certifying CNO crew members and for testing/validating new CNO tactics and tools."

- 315 Network Warfare Squadron TTP PE (2008-2010 AAR)



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